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# A Proposal to Construct and Test a Cathode Ray Tube Display with Data Storage Capabilities

Robert Pitsch

*Indiana University - Purdue University Fort Wayne*

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A PROPOSAL TO CONSTRUCT AND TEST  
A CATHODE RAY TUBE DISPLAY WITH  
DATA STORAGE CAPABILITIES

SUBMITTED TO THE FACULTY OF  
PURDUE UNIVERSITY AT  
FORT WAYNE

BY ROBERT PITSCH  
SEPTEMBER 22, 1974

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FACULTY ADVISOR

Robert Pitsch

## ABSTRACT

The Cathode Ray Tube display is able to display 64 different characters in 512 positions on a television set. The picture on the television set can be subdivided into 32 characters per line and 16 lines deep. This device has full editing control, forwards, backwards, carriage return, and Home. With this control a character can be inserted anywhere in the 512 position matrix.

The data circuitry is designed to be sensitive to return and escape commands. On the detection of these commands the transmitter will automatically shut off. As a result, any portion of the screen can be outputted to cassette for permanent storage. This stored data can be put back into the CRT for reproduction or sent out via telephone lines to a computer.

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